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S Cotin, H Delingette, N Ayache - IEEE Transactions on Visualization and Computer Graphics, 1999 - ieeexplore.ieee.org

Page 1 62 IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS, VOL. 5, NO. 1, JANUARY-MARCH 1999 1077-2626/99/\$10.00 © 1999 IEEE Real-Time Elastic ...

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HYPER: A new approach for the recognition and positioning of two-dimensional objects. - group of 3 »

N Ayache, OD Faugeras - IEEE TRANS. PATTERN ANAL. MACH. INTELLIG., 1986 - portal.acm.org
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Maintaining representations of the environment of a mobile robot - group of 3 »

N Ayache, O Faugeras - on The fourth international symposium table of contents, 1988 - portal.acm.org
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MIT Press Cambridge, MA, USA. Additional Information: ...

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Using deformable surfaces to segment 3-D images and infer differential structures - group of 2 »

I Cohen, LD Cohen, N Ayache - CVGIP: Image Understanding, 1992 - portal.acm.org

... Laurent D. Cohen, **Nicholas Ayache**, Publisher, Academic Press, Inc. ... **Nicholas Ayache**:

Safa Al-Sarraj. Cyril F. Allouche. Douglas L. Arnold. DP Auer. Ludwig M. Auer ...

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book Artificial vision for mobile robots: stereo vision and multisensory perception

N Ayache - 1991 - MIT Press

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Rigid, affine and locally affine registration of free-form surfaces - group of 10 »

J Feldmar, N Ayache - International Journal of Computer Vision, 1996 - Springer

... JACQUES FELDMAR AND **NICHOLAS AYACHE** INRIA SOPHIA, Projet EPIDAURE, 2004 route des Lucioles, BP 93, 06902 Sophia Antipolis Cedex, France feldmar@sophia.inria.fr ...

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A hybrid elastic model for real-time cutting, deformations, and force feedback for surgery training ... - group of 6 »

S Cotin, H Delingette, N Ayache - The Visual Computer, 2000 - Springer

We propose three physical models based on linear elasticity theory and finite-element modeling that are well-suited for surgery simulation. The ...

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Smoothing and matching of 3-d space curves - group of 6 »

A Guéziec, N Ayache - International Journal of Computer Vision, 1994 - Springer

Abstract We present a new approach to the problem of matching 3-D curves. The approach has a low algorithmic complexity in the number of models, and ...

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[The Correlation Ratio as a New Similarity Measure for Multimodal Image Registration - group of 4 »](#)

A Roche, G Malandain, X Pennec, N Ayache - MICCAI, 1998 - Springer

Abstract. Over the last five years, new "voxel-based" approaches have allowed important progress in multimodal image registration, notably due to ...

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[Tracking Points on Deformable Objects Using Curvature Information - group of 3 »](#)

I Cohen, N Ayache, P Sulger - ECCV, 1992 - iris.usc.edu

The objective of this paper is to present a significant improvement to the approach of Duncan et al. [1, 8] to analyze the deformations of curves in ...

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Medical Image Analysis and Simulation - group of 4 »

N Ayache - LECTURE NOTES IN COMPUTER SCIENCE, 1997 - rfai.li.univ-tours.fr
... integrate all the requirements for a realistic **simulation**. ... gives not only the deformed **mesh** but also ... force feedback device according to the actual **deformation**. ...
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MEDICAL IMAGE - group of 4 »

S **SIMULATION** - imm.dtu.dk
... 77 5.6 **Deformation** of grid for circle to 'C' using ... 124 8.5 FE **mesh** created from contours using Nuages ... 125 8.6 **Simulation** system implemented using SGI Performer ...
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[PS] Epidaure, Projet Images, Diagnostic Automatique, Robotique - group of 2 »

P EPIDAURE - inria.fr
... cles : analyse du mouvement (1, 15), **deformation** (1, 17 ... robotique medicale (1), **simulation** (20), **simulation** chirurgicale (1 ... **Nicholas Ayache**, DR Inria Secretariat ...
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[BOOK] Medical image computing and computer-assisted intervention-MICCAI'98

WM Wells, S Delp, ACF Colchester, CF Alan - 1998 - books.google.com
... University, USA Takehide Asano Chiba University, JP **Nicholas Ayache** INRIA Sophia ...
Modeling of Soft Tissue **Deformation** for Laparoscopic Surgery **Simulation**
[Cited by 1](#) - [Web Search](#) - [Library Search](#)

[BOOK] CVRMed-MRCAS'97

J Troccaz - 1997 - books.google.com
... Advisory Board **Nicholas Ayache**, PhD Anthony DiGioia III, MD Takeo Kanade, PhD ...
CT-based **simulation** offluoroscopy and DSA for endovascular surgery training ...
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[BOOK] Vision Modelling and Visualization ' 99

B Girod - 1999 - books.google.com
... Improved Cut-Border Machine for Triangle **Mesh** Compression ... A. Carini, S. Di Pierro:
Deformation Modelling of ... B. Cited: Interactive Osteotomy **Simulation** and Soft ...
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[PS] Fast evaluation of cardinal radial basis interpolants

G Allasia, P Giolito - Surface Fitting and Multiresolution Methods - infres.enst.fr
... We prove that it converges to the data function as the **mesh** parameter tends to zero. ...
Mexico gonzalez@ce.isicam.unam.mx A Free **Mesh** Surface Structure for ...
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Toward realistic soft-tissue modeling in medical simulation - group of 12 »

H Delingette - Proceedings of the IEEE, 1998 - [ieeexplore.ieee.org](#)

... 5. **Deformation** response of a linear viscoelastic material ... a moving point object and a static **mesh**. ... In surgical **simulation**, however, those algorithms are not ...

Cited by 105 - [Web Search](#) - [BL Direct](#)

Volumetric medical images segmentation using shape constrained deformable models - group of 6 »

J Montagnat, H Delingette - LECTURE NOTES IN COMPUTER SCIENCE, 1997 - [lirmm.fr](#)

... This reference deformable model is represented as a simplex **mesh** submitted to ... the robustness of segmentation while allowing very complex **deformation** of the ...

Cited by 25 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

A Hybrid Framework for Surface Registration and Deformable Models - group of 10 »

J Montagnat, H Delingette - IEEE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND ..., 1997 - [doi.ieeecomputersociety.org](#)

... below requires a few minutes of **deformation** on a ... Without external forces, a simplex **mesh** submitted to the ... extracted are suitable for surgery **simulation** or the ...

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Anatomy-Based Facial Tissue Modeling Using the Finite Element Method

S Testbed - [caesar.de](#)

... efforts is the computer-based realistic **simulation** of the soft tissue or skeleton **deformation**, such as ... approximated by dividing it into a **mesh** of discrete ...

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E Keeve, S Girod, P Pfeifle, B Girod - IEEE Visualization, 1996 - [doi.ieeecomputersociety.org](#)

... efforts is the computer-based realistic **simulation** of the soft tissue or skeleton **deformation**, such as ... approximated by dividing it into a **mesh** of discrete ...

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Interactive multiresolution animation of deformable models - group of 19 »

G Debunne, M Desbrun, A Barr, MP Cani - ... Eurographics Workshop on Computer Animation and **Simulation**, ..., 1999 - [multires.caltech.edu](#)

... interpret Hooke's law as a **deformation** wave with ... no damping at all was used for this **simulation**. ... introduced in Computer Graphics for **mesh** smoothing through ...

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Interactive Animation of Structured Deformable Objects - group of 16 »

M Desbrun, P Schroeder, A Barr - GRAPHICS INTERFACE, 1999 - [geometry.caltech.edu](#)

... The first one is derived from the finite element the- ory, and takes advantage of linear elasticity to allow real-time **deformation** of any meshed objects [3 ...

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[PS] Epidaure, Projet Images, Diagnostic Automatique, Robotique - group of 2 »

P EPIDAURE - [inria.fr](#)

... 2. **Deformation** de la superquadrique par deformations ... 3.5.1 **Simulation** de video-chirurgie abdominale Participants : **Herve Delingette**, Luc Soler, Stephane Cotin ...
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[Topological Evolution of Surfaces - group of 7 »](#)

D DeCarlo, J Gallier - GRAPHICS INTERFACE, 1996 - cs.rutgers.edu

... differ. Also, a simple **deformation** of a shape (a geometric change), does not change either the **mesh** or surface topology. We will ...

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S Antipolis - inria.fr

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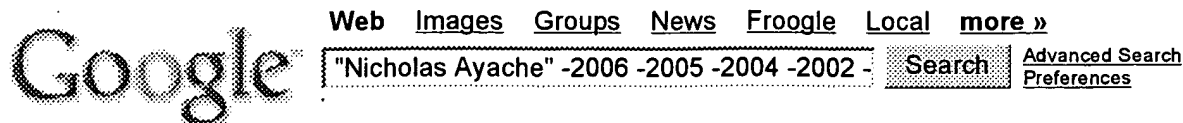
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Handbook of Numerical Analysis: Computational Models for ... - \$215.00 - Barnes & Noble.com

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Digital Processing of Medical Images (plan) - Nicholas Ayache

The lecture is made of 6 parts (the 1rst is available in french as well, so you will find 7 items below) : Introduction (a SMIL document, 8mn 28s, ...

www.inria.fr/MULTIMEDIA/Didactheque/4-Docmnt-Didact/0002/planMedicalImages.html -

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7] Chahab Nastar and **Nicholas Ayache**. A New Physically Based ... analysis of nonrigid motion from 4D data Chahab Nastar **Nicholas Ayache** INRIA Rocquencourt ...

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Nicholas Ayache Patent Inventor Nice, FR

Nicholas Ayache. Nice, FR 20050141757 - Image processing device and method for detecting developing lesions ### The patent applicatons displayed for ...

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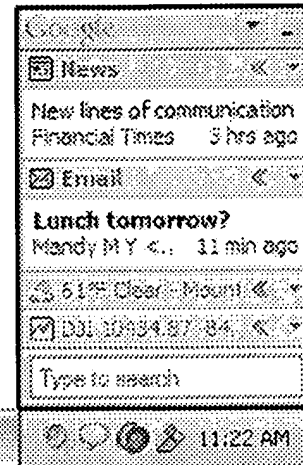
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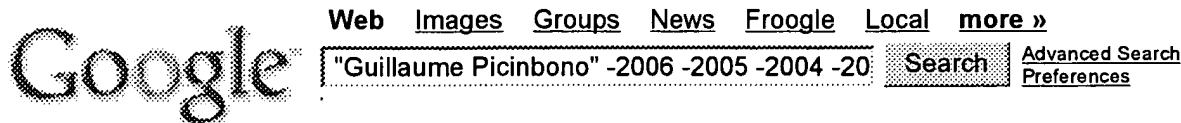
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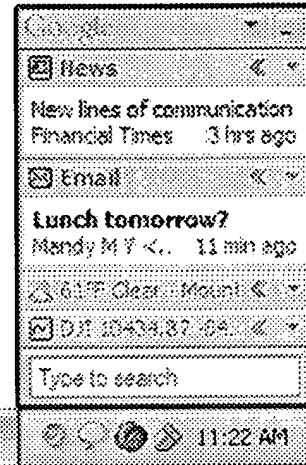
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Clatz, O.; Delingette, H.; Talos, I.-F.; Golby, A.J.; Kikinis, R.; Jolesz, F.A.; Ayache, N.;
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Volume 24, Issue 11, Nov. 2005 Page(s):1417 - 1427
Digital Object Identifier 10.1109/TMI.2005.856734
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- ☐ 2. **Realistic simulation of the 3-D growth of brain tumors in MR images coupled with biomechanical deformation**
Clatz, O.; Sermesant, M.; Bondiau, P.-Y.; Delingette, H.; Warfield, S.K.; Malani, N.;
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Ayache, N.; Faugeras, O.D.;
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[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)
Volume 13, Issue 1, Jan. 1991 Page(s):73 - 85
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- ☐ 5. **Frequency-based nonrigid motion analysis: application to four dimensional images**
Nastar, C.; Ayache, N.;

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Volume 18, Issue 11, Nov. 1996 Page(s):1067 - 1079
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Guezic, A.P.; Pennec, X.; Ayache, N.;
[Computational Science and Engineering, IEEE \[see also Computing in Science](#)
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Cotin, S.; Delingette, H.; Ayache, N.;
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- ☐ **8. Medical image analysis: progress over two decades and the challenges a**
Duncan, J.S.; Ayache, N.;
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and gradient information
Roche, A.; Pennec, X.; Malandain, G.; Ayache, N.;
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Ayache, N.;
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- ☐ **14. Integrating Tactile and Force Feedback with Finite Element Models**
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